

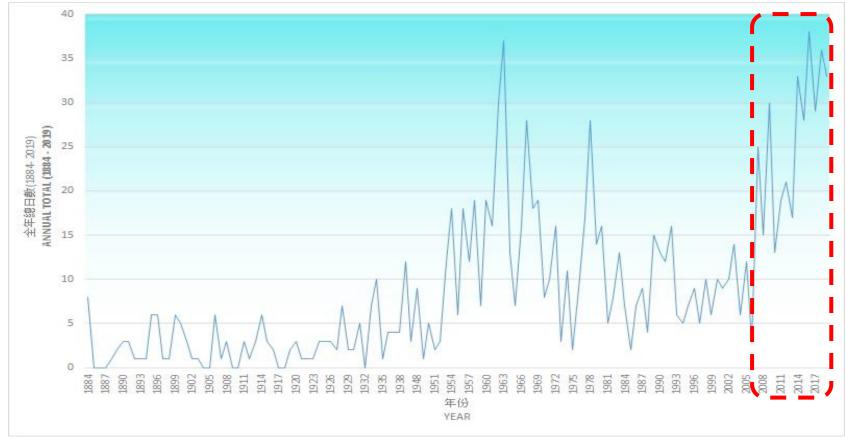
Heat Stress Prevention Campaign from a Client Rico Lai Perspective

Manager - Project Safety 23 April 2020



Background

- Heat Stress is a major health hazard in HK during summer.
- The situation becomes more challenging due to the increasing trend of "very hot days" since 2007!



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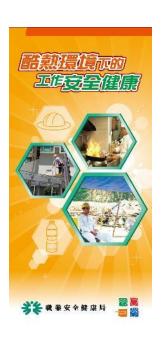
Key Basis

- For the construction industry, official bodies (LD, CIC, OSHC, etc) have published guidelines to all stakeholders.
- The guidelines serve as a key basis to manage the heat stress risk.
- And it's requires commitment to drive it forward!











MTR Safety-First Culture

Being a major client in HK infrastructures development, we do:

- Take the safety of our customers, the public, contractors and employees an absolute prerequisite and utmost concern.
- Committed consistently to:
- meeting statutory requirements,
- maintaining and improving a safety-first culture, and
- implementing management system to the achievement of our safety goals.





Our perspectives

- Work together with our Contractors and listen to workers
- Incorporate "hot weather provisions" in contract
- Provide support to the Contractors.



New Railway Projects

Since the start of new railway projects from 2009 (i.e. WIL, SIL), MTR Projects Division has incorporated "Hot Weather Provisions" in contract requirements.

Our General Specification mandates the contractors' compliance with:

- Labour Department's "Prevention of Heat Stroke at Work in a Hot Environment", and
- Precautionary measures such as:
 - heat stress risk assessment,
 - safety helmet with ventilation slots,
 - lightweight & light colour clothing,
 - compulsory rest breaks,
 - air-conditioner in plant cabins.







New Railway Projects

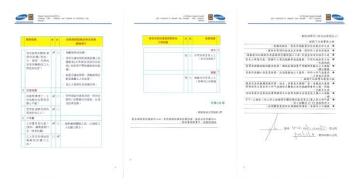
As increasing concern of heat stress, MTR Projects Division issued the *Heat Stress Prevention Guidelines* in 2012, which includes:

- To comply with CIC's "Guideline on Site Safety Measures for Working in Hot Weather"
- To provide 15-minute rest break after every 90 minutes of continuous work
- To conduct specific heat stress risk assessment, based on site condition and work procedures









• Sufficient drinking water with dispensers

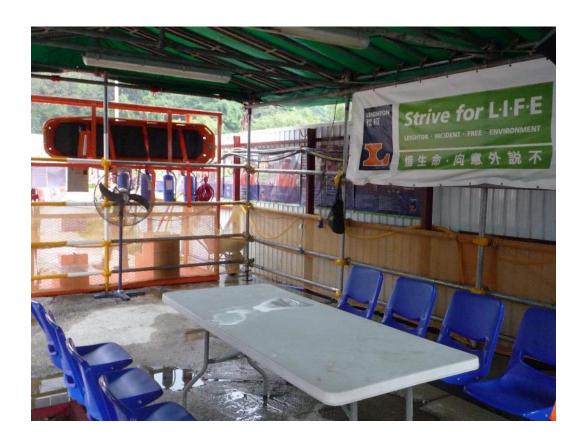






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• Sheltered rest areas with seats, fans & drinking water







• Sheltered working area







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• Improve ventilation at workplace









• Health screening for new workers by site nurse & regular body temperature checks for at-risk workers.

• Information & training to enhance heat stress awareness of workers.









Promotion

• Banners provided to Contractors



Pocket cards provided to workers



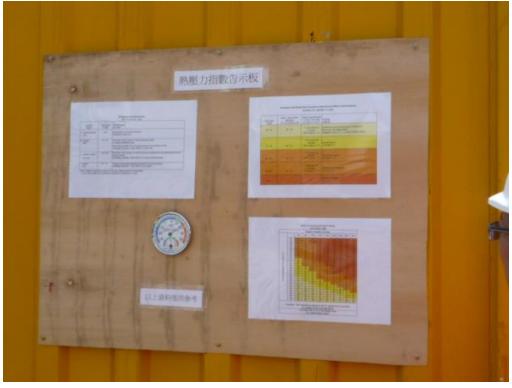


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Promotion

• Contractors' heat stress information board





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Joint Monitoring and Assessment

Heat Stress Assessment Checklist

Section I

Name of organization / Department: MTRC

Work Location: Finger Pier

No. of Inspectors and work description: SIOW x 1 and IOW x 2 for Supervision

Section II

	Risk Factor	Yes	No	Photo
1	Temperature	1		to the second se
	Is the workplace located outdoor?	1		1. 11
	Is the workplace directly affected by the temperature of the outdoor environment?	1		
	Does the temperature of the workplace generally exceed 32 °C?	1		
	Does the air in the workplace feel hot?			
2	Humidity	- 9		
	Is the workplace directly affected by the humidity of the Outdoor environment?	1		
	Does the relative humidity of the workplace generally exceed 85%?		1	
	Is there any source/ equipment that produces steam?		1	
	Is the skin of the Inspectors completely wet?		1	700

Heat Stress Assessment Checklist

Section I

Name of organization / Department: Work Location:

No of inspectors & engineers and work description:

MTRC/SCL - 1109

SUW Station and TKA above ground 11 inspectors and 7 engineers for Supervision (for SUW station and tunnels)

Section II







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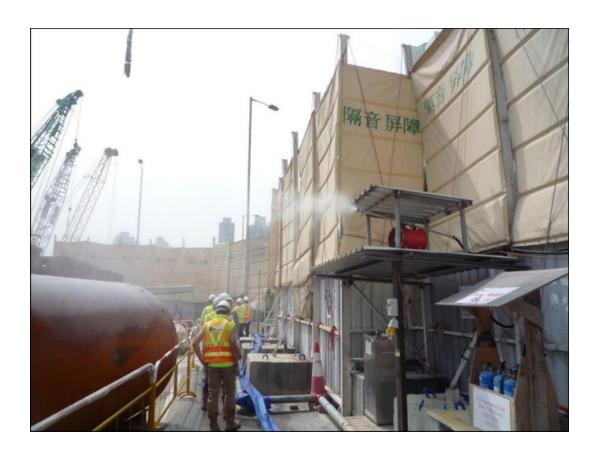
• Distribute water bottle and electrolyte drink powder







• Water spray at site and placing ice in tunnel to lower the temperature of the working environment.





• Provide ice making machines





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• Distribute neck shade for safety helmet



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Thank You

